



PATENT
Attorney Docket No. **UM-08410**


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Samir M. Hanash
Serial No.: 10/686,417
Filed: 10/15/2003
Entitled: **Multidimensional Protein Separation System**

Group No.: 1641
Examiner: Nelson C. Yang

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

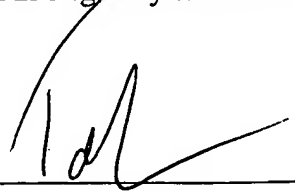
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Date: <u>June 19, 2006</u>	By:  Jennifer B. Xistris

Sir or Madam:

Enclosed please find a **Information Disclosure Statement** and Form PTO-1449, in the above-identified application, for filing in the U.S. Patent Office.

Enclosed is a check in the amount of **\$180.00** to cover the fee to file an Information Disclosure Statement. The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1290. An originally executed duplicate of this transmittal is enclosed for this purpose.

Dated: June 19, 2006


Tanya A. Arenson
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Sir or Madam:

The citations listed below may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

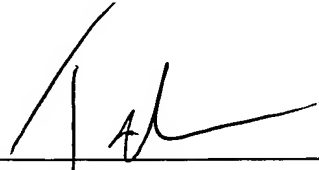
- 6,387,707 05/14/2002 Seul, et al
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- 6,387,628 05/14/2002 Little, et al
- 6,281,493 08/28/2001 Vestal, et al
- 6,002,127 12/14/1999 Vestal, et al
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- 5,696,376 12/09/1997 Doroshenko, et al

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 - Liang, et al., Rap. Comm. Mass Spec., 10:1219 (1996) Determination of Bacterial Protein Profiles By Matrix-assisted Laser Desorption/ionization Mass Spectrometry with High-Performance Liquid Chromatography.
 - Griffin, et al, Rap. Comm. Mass Spec., 9:1546 (1995) Direct Database Searching with MALDI-PSD Spectra of Peptides.
 - Opiteck, et al., Anal. Biochem. 258:344 (1998) Comprehensive Two-Dimensional High-Performance Liquid Chromatography for the Isolation of Overexpressed Proteins and Proteome Mapping.

- Nilsson, et al., Rap Comm. Mass. Spec., 11:610 (1997) Isolation And Characterization of Proteins From Human Lymphocyte Nuclei Using Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry And Post-Source Decay Analysis
- Chen, et al., Rap. Comm. Mass Spec., 12:1994 (1998) Rapid Identification And Screening of Proteins From Whole Cell Lysates of Human Erythroleukemia Cells in the Liquid Phase, Using Non-porous reversed Phase High-Performance Liquid Chromatography Separations Of Proteins Followed by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Analysis And Sequence Database Searching.
- Wall, et al., Anal. Chem., 71:3894 (1999) Rapid Profiling Of Induced Proteins In Bacteria Using MALDI-TOF Mass Spectrometric Detection Of Nonporous RP HPLC-Separated Whole Cell Lysates.
- Chong, et al., Rap. Comm. Mass Spec., 13:1808 (1999) Rapid Screening of Protein Profiles of Human Breast Cancer Cell Lines Using Non-porous Reversed-Phase High Performance Liquid Chromatography Separation With Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectral Analysis.

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: June 19, 2006



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PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 2

Complete if Known

Application Number	10/686,417
Filing Date	10/15/2003
First Named Inventor	Samir Hanash, et al
Art Unit	
Examiner Name	
Attorney Docket Number	UM-08410

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US- 6,387,707	05/14/2002	Seul, et al	Whole Document
	2	US- 6,328,869	12/11/2001	Ogle	Whole Document
	3	US- 6,328,868	12/11/2001	Weber	Whole Document
	4	US- 6,387,628	05/14/2002	Little, et al	Whole Document
	5	US- 6,281,493	08/28/2001	Vestal, et al	Whole Document
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	7	US- 5,572,025	11/05/1996	Cotter, et al	Whole Document
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	9	US- 5,399,857	03/21/1995	Doroshenko, et al	Whole Document
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	13	US- 4,755,670	07/05/1988	Syka, et al	Whole Document
	14	US- 6,406,921	06/18/2002	Wagner, et al	Whole Document
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FOREIGN PATENT DOCUMENTS

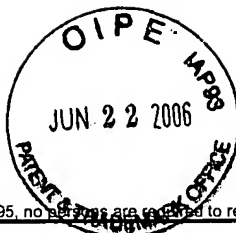
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	15	20020110933A1	08/15/2002	Wagner, et al	Whole Document	
	16	20020102617	08/01/2002	MacBeath, et al	Whole Document	
	17	WO 01/68671	09/20/2001	Church	Whole Document	
	18	WO 00/54046	09/14/2000	Hui Ge	Whole Document	

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First Named Inventor	Samir Hanish, et al
Art Unit	1641
Examiner Name	Yang
Attorney Docket Number	UM-08410

Sheet	2	of	2
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	19	Hanash, Electrophoresis 21:1202 (2002) Biomedical Applications of Two-Dimensional Electrophoresis Using Immobilized pH Gradients: Current Status.	
	20	Patterson, Physiol. Genomics 2:59 (2000) Mass spectrometry and proteomics	
	21	Ayala, et al., App. Biochem. biotech. 69:11 (1998) Use Of Rotofor Preparative Isoelectrofusing Cell In Proteins Purification Procedure	
	22	Liang, et al., Rap. Comm. Mass Spec., 10:1219 (1996) Determination of Bacterial Protein Profiles By Matrix-assisted Laser Desorption/Ionization Mass Spectrometry with High-Performance Liquid Chromatography.	
	23	Griffin, et al, Rap. Comm. Mass Spec., 9:1546 (1995) Direct Database Searching with MALDI-PSD Spectra of Peptides.	
	24	Opitck, et al., Anal. Biochem. 258:344 (1998) Comprehensive Two-Dimensional High-Performance Liquid Chromatography to the Isolation of Overexpressed Proteins and Proteome Mapping.	
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